## AMENDMENTS TO THE CLAIMS

- 1. (Previously Presented) A hydrodynamic and hydrostatic hybrid bearing comprises:
  - a housing containing a lubricant;
- a bushing placed in the housing having a plurality of dynamic pressure generating grooves being penetrated through the bushing for storing the lubricant; and
  - a shaft rotatably installed in the bushing;

wherein the lubricant produces hydrodynamic pressure between the grooves and the shaft when the shaft rotates relative to the bushing.

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- 2. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the housing comprises a porous material for storing a lubricant.
- 3. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein a pre-pressure is applied to the housing for making the lubricant pass through the grooves and to be present between the bushing and the shaft.



- 4. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 3, wherein the housing further comprises a sealed unit to keep the pre-pressure.
- 5. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 4, wherein the sealed unit is a sealed glue.



6. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the bushing is a cylinder-shaped bushing.

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- 7. (Previously Presented) The hydrodynamic and hydrostatic hybrid bearing of claim 1, wherein the dynamic pressure generating grooves are two pair of herringbone grooves.
- 8. (Withdrawn Currently Amended) The manufacturing method of the hydrodynamic and hydrostatic hybrid bearing comprises the following steps:

forming a bushing;

processing a plurality of penetrated dynamic pressure generating [[groove]] grooves on the bushing;

integrating the bushing into a housing containing a lubricant;

installing a shaft in the bushing; and applying a pre-pressure to the housing and sealing the housing.

9. (Withdrawn) The manufacturing method as claim 8, wherein the bushing is a cylinder-shaped bushing.



- 10. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are processed by a cutting processing.
- 11. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are formed by an etching process.
- 12. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are formed by a plastic injection process.
- 13. (Withdrawn) The manufacturing method as claim 8, wherein the dynamic pressure generating grooves are two pairs of herringbone grooves.

- 14. (Withdrawn) The manufacturing method as claim 8, wherein lubricant produces a hydrodynamic pressure between the dynamic pressure generating grooves and the shaft when the shaft rotates relative to the bushing.
- 15. (Withdrawn) The manufacturing method as claim 8, wherein the housing contains porous material for storing the lubricant.



- 16. (Withdrawn) The manufacturing method as claim 8, wherein the pre-pressure makes the lubricant pass through the grooves and be kept between the bushing and shaft.
- 17. (Withdrawn Currently Amended) The manufacturing method as claim 8, wherein the [[housing]] <u>bushing</u> is combined with <u>the</u> housing by being inserted directly into the housing.
- 18. (Withdrawn Currently Amended) The manufacturing method as claim 8, wherein the bushing is combined with <a href="the-housing-by-extruding-and-sintering">the-housing-by-extruding-and-sintering</a>.
- 19. (New) The hydrodynamic and hydrostatic hybrid bearing of claim 3, wherein the pre-pressure is applied by an external device after the shaft is in the bushing.